

ST98045USDIV.txt
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<110> Fournier, Alain
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Riou, Jean-Francois
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<150> US 09/856,930
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His Leu Leu Ala His Asp Phe Gln Met Gln Phe Arg Lys Trp Gln Ser
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Cys Asn Pro Leu Val Leu Phe Glu Ala Glu Ile Glu Lys Tyr Cys Pro
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Glu Asn Phe Val Asp Ile Lys Lys Thr Leu Glu Arg Glu Thr Arg Gln
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Cys Gln Ala Leu Val Ile Trp Thr Asp Cys Asp Arg Glu Gly Glu Asn
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Ile Gly Phe Glu Ile Ile His Val Cys Lys Ala Val Lys Pro Asn Leu
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Gln Val Leu Arg Ala Arg Phe Ser Glu Ile Thr Pro His Ala Val Arg
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Thr Ala Cys Glu Asn Leu Thr Glu Pro Asp Gln Arg Val Ser Asp Ala
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Val Asp Val Arg Gln Glu Leu Asp Leu Arg Ile Gly Ala Ala Phe Thr
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Val Val Glu Arg Phe Lys Ala Ile Gln Ala Phe Val Pro Glu Ile Phe
225 230 235 240

His Arg Ile Lys Val Thr His Asp His Lys Asp Gly Ile Val Glu Phe
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Asn Trp Lys Arg His Arg Leu Phe Asn His Thr Ala Cys Leu Val Leu
260 265 270

Tyr Gln Leu Cys Val Glu Asp Pro Met Ala Thr Val Val Glu Val Arg
275 280 285

Ser Lys Pro Lys Ser Lys Trp Arg Pro Gln Ala Leu Asp Thr Val Glu
290 295 300

Leu Glu Lys Leu Ala Ser Arg Lys Leu Arg Ile Asn Ala Lys Glu Thr
305 310 315 320

Met Arg Ile Ala Glu Lys Leu Tyr Thr Gln Gly Tyr Ile Ser Tyr Pro
325 330 335

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355 360 365

Ile Leu Glu Arg Gly Gly Pro Thr Pro Arg Asn Gly Asn Lys Ser Asp
370 375 380

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Gly Asp Glu Gln Arg Leu Tyr Glu Phe Ile Val Arg His Phe Leu Ala
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ST98045USDIV.txt

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Ile Ala Leu Met Glu Lys His Gly Ile Gly Thr Asp Ala Thr His Ala
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Glu His Ile Glu Thr Ile Lys Ala Arg Met Tyr Val Gly Leu Thr Pro
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Asp Lys Arg Phe Leu Pro Gly His Leu Gly Met Gly Leu Val Glu Gly
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Tyr Asp Ser Met Gly Tyr Glu Met Ser Lys Pro Asp Leu Arg Ala Glu
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Leu Glu Ala Asp Leu Lys Leu Ile Cys Asp Gly Lys Lys Asp Lys Phe
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Val Val Leu Arg Gln Gln Val Gln Lys Tyr Lys Gln Val Phe Ile Glu
580 585 590

Ala Val Ala Lys Ala Lys Lys Leu Asp Glu Ala Leu Ala Gln Tyr Phe
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Gly Asn Gly Thr Glu Leu Ala Gln Gln Glu Asp Ile Tyr Pro Ala Met
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Pro Glu Pro Ile Arg Lys Cys Pro Gln Cys Asn Lys Asp Met Val Leu
625 630 635 640

Lys Thr Lys Lys Asn Gly Gly Phe Tyr Leu Ser Cys Met Gly Phe Pro
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Glu Cys Arg Ser Ala Val Trp Leu Pro Asp Ser Val Leu Glu Ala Ser
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Leu Lys Leu Lys Phe Lys Arg Gly Ser Leu Pro Pro Thr Met Pro Leu
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ST98045USDIV.txt

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His Pro Gln Pro Ala Asp Ser Arg Gln Thr Gly Ser Ser Lys Ala Leu
755 760 765

Ala Gln Thr Leu Pro Pro Pro Thr Ala Ala Gly Glu Ser Asn Ser Val
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Thr Cys Asn Cys Gly Gln Glu Ala Val Leu Leu Thr Val Arg Lys Glu
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Gly Pro Asn Arg Gly Arg Gln Phe Phe Lys Cys Asn Gly Gly Ser Cys
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Pro Ala Leu Ala Tyr Arg Pro Leu Gly Ala Ser Leu Gly Cys Pro Pro
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Gly Pro Gly Ile His Leu Gly Gly Phe Gly Asn Pro Gly Asp Gly Ser
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Gly Ser Gly Thr Ser Cys Leu Cys Ser Gln Pro Ser Val Thr Arg Thr
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Val Gln Lys Asp Gly Pro Asn Lys Gly Arg Gln Phe His Thr Cys Ala
885 890 895

Lys Pro Arg Glu Gln Gln Cys Gly Phe Phe Gln Trp Val Asp Glu Asn
900 905 910

Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg Gly
915 920 925

Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Ser Ser
930 935 940

Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Leu Cys

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ST98045USDIV.txt
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Glu Gln Asp Thr Met Pro Pro Lys Gly Val Arg His Thr Met Met Phe
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Ser Ala Thr Phe Pro Lys Glu Ile Gln Met Leu Ala Arg Asp Phe Leu
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Asp Glu Tyr Ile Phe Leu Ala Val Gly Arg Val Gly Ser Thr Ser Glu
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Asn Ile Thr Gln Lys Val Val Trp Val Glu Glu Ser Asp Lys Arg Ser
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Phe Leu Leu Asp Leu Leu Asn Ala Thr Gly Lys Asp Ser Leu Thr Leu
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Val Phe Val Glu Thr Lys Lys Gly Ala Asp Ser Leu Glu Asp Phe Leu
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Tyr His Glu Gly Tyr Ala Cys Thr Ser Ile His Gly Asp Arg Ser Gln
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Arg Asp Arg Glu Glu Ala Leu His Gln Phe Arg Ser Gly Lys Ser Pro
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Ile Leu Val Ala Thr Ala Val Ala Ala Arg Gly Leu Asp Ile Ser Asn
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Val Lys His Val Ile Asn Phe Asp Leu Pro Ser Asp Ile Glu Glu Tyr
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Val His Arg Ile Gly Arg Thr Gly Arg Val Gly Asn Leu Gly Leu Ala
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Thr Ser Phe Phe Asn Glu Arg Asn Ile Asn Ile Thr Lys Asp Leu Leu
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Asp Leu Leu Val Glu Ala Lys Gln Glu Val Pro Ser Trp Leu Glu Asn
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Ser Gly Gly Gly Gly His Gly Ser Ser Arg Gly Phe Gly Gly Gly
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ST98045USDIV.txt

ST98045USDIV.txt

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Thr Arg Gly Phe Tyr Asp Lys Asp Ser Ser Gly Trp Ser Ser Ser Lys
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Asp Lys Asp Ala Tyr Ser Ser Phe Gly Ser Arg Ser Asp Ser Arg Gly
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Lys Ser Ser Phe Phe Ser Asp Arg Gly Ser Gly Ser Arg Gly Arg Phe
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Asp Asp Arg Gly Arg Ser Asp Tyr Asp Gly Ile Gly Ser Arg Gly Asp
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Arg Ser Gly Phe Gly Lys Phe Glu Arg Gly Gly Asn Ser Arg Trp Cys
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ST98045USDIV.txt

Arg Leu Glu Gln Glu Leu Phe Ser Gly Gly Asn Thr Gly Ile Asn Phe
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Glu Lys Tyr Asp Asp Ile Pro Val Glu Ala Thr Gly Asn Asn Cys Pro
165 170 175

Pro His Ile Glu Ser Phe Ser Asp Val Glu Met Gly Glu Ile Ile Met
180 185 190

Gly Asn Ile Glu Leu Thr Arg Tyr Thr Arg Pro Thr Pro Val Gln Lys
195 200 205

His Ala Ile Pro Ile Ile Lys Glu Lys Arg Asp Leu Met Ala Cys Ala
210 215 220

Gln Thr Gly Ser Gly Lys Thr Ala Ala Phe Leu Leu Pro Ile Leu Ser
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Gln Ile Tyr Ser Asp Gly Pro Gly Glu Ala Leu Arg Ala Met Lys Glu
245 250 255

Asn Gly Arg Tyr Gly Arg Arg Lys Gln Tyr Pro Ile Ser Leu Val Leu
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Ala Pro Thr Arg Glu Leu Ala Val Gln Ile Tyr Glu Glu Ala Arg Lys
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Phe Ser Tyr Arg Ser Arg Val Arg Pro Cys Val Val Tyr Gly Gly Ala
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Asp Ile Gly Gln Gln Ile Arg Asp Leu Glu Arg Gly Cys His Leu Leu
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Val Ala Thr Pro Gly Arg Leu Val Asp Met Met Glu Arg Gly Lys Ile
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Gly Leu Asp Phe Cys Lys Tyr Leu Val Leu Asp Glu Ala Asp Arg Met
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Leu Asp Met Gly Phe Glu Pro Gln Ile Arg Arg Ile Val Glu Gln Asp
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Thr Met Pro Pro Lys Gly Val Arg His Thr Met Met Phe Ser Ala Thr
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Phe Pro Lys Glu Ile Gln Met Leu Ala Arg Asp Phe Leu Asp Glu Tyr
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ST98045USDIV.txt

Ile Phe Leu Ala Val Gly Arg Val Gly Ser Thr Ser Glu Asn Ile Thr
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Gln Lys Val Val Trp Val Glu Glu Ser Asp Lys Arg Ser Phe Leu Leu
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Asp Leu Leu Asn Ala Thr Gly Lys Asp Ser Leu Thr Leu Val Phe Val
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Glu Thr Lys Lys Gly Ala Asp Ser Leu Glu Asp Phe Leu Tyr His Glu
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Glu Glu Ala Leu His Gln Phe Arg Ser Gly Lys Ser Pro Ile Leu Val
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Ala Thr Ala Val Ala Ala Arg Gly Leu Asp Ile Ser Asn Val Lys His
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Val Ile Asn Phe Asp Leu Pro Ser Asp Ile Glu Glu Tyr Val His Arg
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Ile Gly Arg Thr Gly Arg Val Gly Asn Leu Gly Leu Ala Thr Ser Phe
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Phe Asn Glu Arg Asn Ile Asn Ile Thr Lys Asp Leu Leu Asp Leu Leu
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Val Glu Ala Lys Gln Glu Val Pro Ser Trp Leu Glu Asn Met Ala Tyr
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Glu His His Tyr Lys Gly Ser Ser Arg Gly Arg Ser Lys Ser Ser Arg
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Phe Ser Gly Gly Phe Gly Ala Arg Asp Tyr Arg Gln Ser Ser Gly Ala
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Ser Ser Ser Ser Phe Ser Ser Arg Ala Ser Ser Ser Arg Ser Gly
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Gly Gly Gly His Gly Ser Ser Arg Gly Phe Gly Gly Gly Tyr Gly
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Gly Phe Tyr Asn Ser Asp Gly Tyr Gly Asn Tyr Asn Ser Gln Gly
Page 14

645

ST98045USDIV.txt

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ST98045USDIV.txt

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